## N. Y. State Barge Canal, Which Cost \$155,000,000,

De Witt Clinton's "Big Ditch," Old Eric Canal, Dwarfed as Engineering Feat by New System of Waterways With Total Mileage of 446 Miles and 57 Concrete Locks, Each 328 Feet Long.

#### By Robert Welles Ritchie

HE State Barge Canal was opened to traffic yesterday. Behind this simple statement of a fact accomplished, an achievement completed, the average man in the street sees no great significance. For years he has glimpsed headlines in the papers about the Barge Canal being in this and that process of Legislative discussion or engineering transition; but he has passed these headlines by. Stories about the State Barge Canal came to be old stuff with him.

Listen, Mr. Man-in-the-Street: This State Barge Canal is your canal It was built with your money. It will bring money to your pocket, indirectly but surely. More than all that, this State Barge Canal is the greatcet war achievement any single State in the Union has brought to a succonstul conclusion since Uncle Sam rolled up his sleeves and got into the

Then, after a few years of busy

traffic on the canal, the ratiroads

they put the old Eric out of busi-

ness except for the most desultory

In 1903 by referendum vote the

plification and improvements all

There have been legislative inqui-

A cycle in the method of making

How far does the Barge Canal ad-

waterways and will be affected di-

ONE of the greatest pipe organs in the country has just been

of a straw, says Popular Mechanics.

The temperature of the six cham-

perated by electricity, requiring

15,000 connections and 300 miles of

hers in which the main organ to

housed is kept uniform by electric

installed in the Denver Audi-

a Whole Orchestra.

Through it a flood of coal will come from the West-coal which Canal project through the Legislature, was held up on clogged railroads and work actually commenced in while you shivered in your arctic 1817. The doughty old Governor apartments last winter. Through it lived to see his pet completed in wheat and other grains for our 1823. It was nowhere more than selves and the boys in France and four feet deep and forty-two feet the Allies will come by an all-water wide, but it was considered a marvel route from the Middle West, In of engineering short, a tremendous burden will be lifted off the shoulders of the overworked railroads by the completion began to be built, and before anof this ribbon of water from Buffalo other quarter century had passed to the Hudson River.

Just what is the Barge Canal? It is an inland waterway system freighting. The canal fell more and of four branches which, like any more into disuse. well regulated rallroad system, taps centres of production and centres of State of New York decided to en-

distribution and does the work of a large and modernize the old Erie, These are the four and the people authorized an exbranches: The old Eris Canal, penditure of \$101,000,000 for this widened and remodelled and running purpose. From that date amendacross the State from Waterford, on ments to the original scheme of amthe Hudson River, to Tonawanda, where the Niagara River is entered along the line have jacked the total and followed to Lake Erie and cost of completing the Barge Canal thence by a short run to Buffalo; up to close onto \$155,000,000 the Champlain branch running northward along the State's eastern ries and professional yells from poliboundary from Waterford to White. ticians and charges and counterhall on the southern end of Lake charges, but the work has been car-Champlain; the Oswego branch from ried through willy-nilly, until tothe old Erie Canal north of Syra day the Empire State has the finest cuse and carrying to Oswego on system of waterways of any in Lake Ontario, and the Cayuga-Sen. America, and second only to those eca Canal leaving the Erie west of of Great Britain and China, reluc-Oswego junction and travelling tant as we may be to concede to the southward to the two large lakes Chinese any superiority.

The Erie, or main stem of the waterways has been completed with new system, is 339 miles long; the this finished work, Champlain branch, 61; the Oswego division, 23, and the Cayuga-Seneca vance us in winning the war? offshoot also 23 miles. The total The canal will accommodate mileage of this waterway system is barges of 1,000 to 2,000 tons, opera-446 miles. In dimensions the canal ting under their own power-no varies according to locality. At all towing as in the case of the old places it has a minimum depth of 12 Erie. The canal system has been net. In earth sections of its terri- designed to accommodate tory it has a maximum width of 125 traffic of 10,000,000 tons. The season feet, which narrows to 94 feet in will be nine months, instead of cuts through rock. In the beds and seven, as of yore. Ice breakers will lakes through which it passes its keep navigation open in all winter dredged channel is 200 feet wide. months except the most severe.

which give it a name.

Fifty-seven locks, all of concrete | Consider 10,000,000 tons of carand operated by electricity, are dis- riers lifting that much work off the persed through its devious ramifica- shoulders of the railroads and you tions. The lock gates are massive will see how the new Barge Canal steel doors, swinging on pivots and will speed us up in the complex weighing as high as 200,000 pounds problem of war traffic. And the area each. The Barge Canal locks are to be affected embraces most of the none less than 328 feet long and 45 northeastern quarter of the United feet wide. They will lift simultane. States. Seventy-five per cent. of the ously six barges from one water State's population live beside its level to another,

rectly by the operation of our new The most notable of these locks are at Waterford, near Troy. There water lane from the lakes to the & combined lift of 169 feet constitutes the greatest series of locks in the world aride from those of Big Denver Organ installed at an expense of a quarter of a million dollars. The lock at Little Falls exceeds in lift any of the Panama Canal. Forty and a half, feet separate its levels.

torium at a cost to the city of \$85,000 One of the unique engineering It combines the qualities of a cathe features of the canal system. them- dral organ and a symptony orchestra. selves a triumph in the craft of hy- The largest of its pipes is two stories drostatics are the movable dams high, forty inches square and weight which retain the waters of the Mo. 1,250 pounds. The smallest weights hawk River and can be raised and half an ounce and has the diameter lowered to govern the depth of water in that portion of the river which forms part of the canal.

What is the history of the Bargs heaters. Above the ceiling is the Canal and what has it cost?

echo organ, which has four sets of There you are going back into the vox-humana pipes instead of one, the blatory of the State and of a young usual number. The instrument is

Nation. When De Witt Clinton, an astute When De Witt Clinton, an astute wire. A grand plane is attached to the consols, which may be lowered and a man of wide vision, was listo the basement when not in use Governor of New York he advocated The great instrument is equipped the building of what his encering with an automatic player, enemies denominated "the big An organist has been employed This was to carry from who will give free noon hour concerts Lake Erie to the Hudson River, Re. during the week, as well as on Sunmember, there were no ratiroads in day, besides which the organ will be those days, and canals had long been used with the municipal chorus of demonstrated the most practicable spite of the huge size of the instru-

ment, its volume can be reduced to Gov. Clinton jammed his Erie accompany a single voica.

# Greatest War Achievement Major Gen. March's Three Daughters All War Brides

WHEN MISS JOSEPHINE MARCH, YOUNGEST DAUGHTER OF THE CHIEF OF STAFF OF THE U. S. ARMY, IS MARRIED THIS MONTH, ALL THREE GIRLS WILL HAVE MARRIED SOLDIERS WITHIN SIX MONTHS.



## Shall Polysyllabic Birds Rule the Earth?

It's a Tough Question, but the Answer Is Buy Thrift Stamps-Lash Yourself to a Raft of Them, for If You Don't, You One-Syllable Smiths, Browns and Greens Will Have No More Show Against the von Hindenburgs, Goofenheimmers and Mackensenzapps Than a Cream Puff Has Against a Pastry Hound-Buy 'Em Now, for It's No Use Whistling for a Dead Dog.

#### BY ARTHUR ("BUGS") BAER

Copyright, 1918, by the Press Publishing Co. (The New York Evening World ). THE nut who banged himself on the skullplace with a hammer because it felt so good when he stopped hasn't any more chance of absorbing the Nobel peace prize than the lady who sews buttons on her husband's socks. The bird who sinks his concrete-filled brogans at the mouth of the aisle channel and blocks up the rest of the summer car seats is an end seat hog and is as liable to tar and feathers as the lob who thinks Hiawatha is still a popular air. The ramm who imagines that cloth top shoes and eight-belted coats are metropolitan stuff is as much of a goof as the sapp who pushes a revolving door against the

It takes all kinds of things to make a world, and we must take our pain with our pleasure, as the monkey said when he kissed the percupine. The kewpie who spends his career trying to figure out which is the front end of a ferryboat is just as big a blok as the seed who carries a parcel by the string. They are all wrong, like a guy who presses the wrong lever in a telephone booth and turns on the shower bath.

There are lots of other wrong citizens in this vale of short changing and other serrows, such as two-fout yardsticks, giraffes with sore necks and gents who haven't collected a full crew of Thrift Stamps.

A Thrift Stamp is a poultice published to take all the inflammation out of this twin hemisphere of goose-stepping and Withemmersty. If you haven't lashed yourself to a raft of Thrift Stamps, you are billing yourself. And the man who bliks himself is the are of fatheads. Buy Thrift Stamps while you have the chance now, as there mu't any use of whistling for a dead dog. Buy Thrift Stamps now, Don't wall until the war is cured. The only way to cure the war is to give it Theift Stamp pills. It doesn't matter whether you buy 'em wholesale or in homeopathic doses. Everybody who buys a stamp is a doctor. And the ruizen who has both Liberty bonds and Thrift Stamps is entitled to have his mail addressed to George Citizen, L. B. and T. S. If you already have L. B. on your shingle, take a post graduate course in patriotism and add the T. S. degree to your title,

Have you aimed an eye at the mechanism of the Kalser's syndicate of gorillas? There isn't a one spilable bird in the bunch. You can't get into that Potsdam firm unless you have a double-jointed name that you couldn't fold up so it would go under the Brooklyn Bridge sideways. There is von Hindenburg, Goofenheimmer, Wazzenbullcoff, Mackensen. sapp, Dinglegiffer, Balloogaloof, Weenywurster and a million other fourpronged names. You can't horn into that close corporation in Berlin unless you are tagged to an clastic name that sounds like a hofbruu surf breaking on a imburger reef.

What chance will the Jamiths and Kiones have if we don't smear that outfit flatter than an anaemic potato fritter? What chance will the Zbrowns and the Bgreens have if the Kaiser gets a chance to dish out the plunder? No more chance than a cream put has against a pastry hound. You have got to have four syllables in your name to fazz around with that bunch of long distance telephone warriors.

It's the one-syllable birds against the multiple syllable yeggs. It's a tough question. But the answer is a Thrift Stamp.

#### Aerial Trolleys Scale Alpine Peaks on Italian Front

the Italian front Motor and pack basket camouflaged with a tarpaulin, of these stones animals carry supplies as far as roads and sent away. At the proper point the cable was stopped, the Austrians be followed. The journey to the glamore damage the big glin was in cier at the summit of the Adamello is over a remarkable route, the first bight supplies with the proper point that their beauty will return if worn to time to restore the beauty of the proper point that their beauty will return if worn to time to restore the beauty of the proper point that their beauty will return if worn to time to restore the beauty of the proper point that their beauty will return if worn to time to restore the beauty of the proper point that their beauty will return if worn to time to restore the beauty of the proper point that their beauty will return if worn to time to restore the beauty of the proper point the cable was stopped.

never before approached. By means was feverishly at work on a gun em- often restored when worn by a per- the wearer, and red coral was once of the "teleferica," an aerial trolley in placement far up a mountainside, son in good health, which accounts supposed to grow pale when the which small cars are suspended from Suddenly they were interrupted by a for the reputation some persons have expert was about to be seriously it, cables, men, guns, ammunition and storm of bullets. The Austrians had gained as successful "doctors" of sick. Many still have a superstitious feelven mules have been carried to po- dragged a machine gun to the summit gemssitions 10,000 to 18,000 feet above sea of a splintered pinnacle, 2,000 feet Turquoises quickly lose their bright- A thorough cleaning or a betteabove them. The situation was crit- ness when the wearer is in bad physi- setting will improve the appearance The teleferica which climbs to the ical, for the work must go on. An cal condition, and one London woman of jewels. Their color brightens of s.coo-foot summit of the Pasubio is officer recalled that at one point on has built up a 'islness by restoring diminishes according to the light in between three and four miles long, the teleferica the car came in sight their lustre, her patrons believing which they are shown, and they may writes Lewis R. Freeman in Popular of the enemy's position. A machine that she possesses some peculiar be affected by acids, but there seems Mechanics, probably the longest on gun was mounted in the swaying quality which redoubles the beauty no doubt that some persons have a

M OUNTAIN lines are best defend- stage being by motor to the lower stamanding the main passes, but is a mule-power, narrow-gauge railed by guns on the heights com- tion of a teleferica. At the upper end arillery mounted on higher elevations of telefericas and a dog-sled journey shown that there apparently is some it had not been true to her lover, is in So the struggle along the Austro- before the peak is reached. These ca-

THURSDAY, MAY 16, 1918

### Cave Men Best Husbands; Are Easiest to Manage And Tamed Like Bears

Kindergarten Task to Domesticate Him--Just Feed Him Flattery-But Even in Love-Making His Method Is Obsolete and He Belongs in Only One Place-the Museum of Natural History.

#### By Nixola Greeley-Smith

HE husband of a New York clubwoman who has gone West to seek a divorce declares that if he had been a Cave Man instead of an eager collaborator in his wife's ambitions and career he would not be called upon now to face domestic bankruptcy.

Reading this announcement, I coud not help thinking of an afternoon years ago, when the present divorce seeker complained to me that the New York papers did not take women's clubs seriously enough.

"I think I will name a committee," she said, "to go down to see all your editors and ask them to take us more seriously."

The husband who now regrets he is not a Cave Man interposed: "The papers will take you seriously whenever you do something serious. Why don't you try it?" My own secret thoughts echoed him; but even then, trembled for his future. What woman would not choose a Cave Man's

rantings and exactions rather than cool, detached criticism? Women do prefer Cave Men, to be sure, because Cave Men make by far the best husbands. For one thing, they are so easy to manage. Consider the Cave Man character-

istics. What are they? A childlike desire for mastery and

an egregious vanity. The woman who wants to domesticate a Cave Man, who would set Samson happily to grinding corn for her, faces only a kindergarten task. She has merely to concede his superiority and put him to work. If she tells him every little while how big and brave and strong he is and how she marvels that he ever found anything to interest him in her puny little self, she can sit of the seventeenth century. in a corner and sew a fine seam for the rest of her days.

If you have ever seen a trained bear vaudeville act you have mar- a policy of indulgence than by Cave velled at the willingness of the lit- Man methods. tle bears to climb up on the kegs they have just been rolling, face the audience and drink out of bottles Man seriously? Who can even preuntil their trainer tells them to get

The reason the bears hold the pose so well is that each bottle contains a small quantity of syrup, which trickles into their mouths humor preserves him from it. And very slowly, and the bears do not as a rule, the man who likes himget down until the syrup is all self in the role of primordial brute

Substituting flattery for syrup, the method of training Cave Men is himself as well as because he is

There is no woman so dull that mentally and physically lazy preshe cannot tame the wildest Cave fer to have everything decided for Man. It does not make any dif- them to think second-hand thoughts ference whether she spends her life and hold hand-me-down opinions. eing taught to swim or having the Others possessed by the devil of war explained to her, though of contradiction enjoy the sport of course if she chooses a Cave Man builting a poor, hard-working Cave who holds his classes out of doors Man. Still others like him because she will get more fresh air and have be needs neither reason nor right a better complexion.

I have seen just three perfect tery. "The School for Husbands," the heart a contempt for the Cave Man. Cave Man type was ridiculed and Even in love-making, Cave Man husband of 1917.

joyed as a girl," says the Cave Man I remember thinking that Katharine

model husband of 1661. "You will let her have patches and ribbons?"

"Doubtless!"

"Let her gad about madly at every ball and public assembly?" "Yes, certainly."

"And the beaux will visit at your house?"

"What then?" "And your wife will listen to their fine speeches?"

"Exactly!" "And you will look on at these gallant visitors with a show of in-

difference?" "Of course."

I do not know of any modern play in which a husband's attitude of tolerance and confidence is so well illustrated as in this classic comedy

And, in the play at least, only good results follow its application Certainly more wives are held by

The hour of the Cave Man is so brief. Who can take a bald Cave tend to be impressed by a Cave Man with a gold tooth?

looks the part will consent to play a Cave Man role. His sense of would be rejected for army service. Some women really like him for identical with that of training bears, casy to manage. Those who are to alter his mind, but merely flat-

Cave Men in twenty years. As long But I do not believe there is any ago as 1661, when Moliere produced woman who has not in her secret

an ideal described who bears a methods are obsolete. The first striking likeness to the American time I ever saw or heard of them was at the age of seven, when I was "If you marry her she may de- taken to see Ada Rehan in "The mand the same freedom she en- Taming of the Shrew." Even then must have been a pretty tame shrew "Certainty," replies Ariste, the from the beginning to be taken in by Petruchio's bullying swagger.

In the civilization of to-day the Cave Man belongs in only one place -the Museum of Natural History.

### Beauty of Jewels Restored by "Gem Doctors'

WOMEN fortunate enough to pos-sess precious stones should effect. Some years ago it was rethrough long disuse, according to jew- Louvre were shrinking in size and ciry experts. All jewels, especially turning black. A supplie, which, it long in darkness. It has also been deep violet tint if the lady wearing that gems suffer when their own ... London. Italian front has been to reach the bles sway dangerously in a high wind, that gems suffer when their own the bles sway dangerously in a high wind, that gems suffer when their own the bles sway dangerously in a high wind, that gems suffer when their own the been coupled. There are many stories of rubles were sky-line, the topmost peaks, and sometimes bringing two passing cars the belief that they foretell disaster, which by changing color, foreteld the belief that they foretell disaster. metting a record for Alpins warfare. In the fall of 1916 a body of Italians Their beauty is said to have been death of some one near and dear to

wear the gems frequen . ported that the peauls in a celebrated and not permit them to deterior o necklade of Mme. Thiers in the

ing about opals,